

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :
Masaharu ARITOMI et al. : Attn: BOX PCT
Serial No. NEW : Docket No. 2001_1229A
Filed August 31, 2001 :

CRYSTALS AND STRUCTURAL COORDINATES
OF PROTEIN COMPLEX AND UTILIZATION OF
THE STRUCTURAL COORDINATES
[Corresponding to PCT/JP00/01217
Filed March 2, 2000]

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents,
Washington, DC 20231

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of ☒ the references listed on attached form PTO-1449 and/or ☐ the additional information identified below in paragraph 3. A legible copy of each reference listed on the form PTO-1449 and each U.S. patent application listed below is enclosed, except a copy is not provided for each reference previously cited by or submitted to the Patent Office in international application no. PCT/JP00/01217.

1a. ☒ This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or

before the mailing date of the first Office Action on the merits,

and thus no certification and/or fee is required.

1b. ☐ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

(1) ☐ the certification of paragraph 2 below is provided, **or**

(2) ☐ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

2. It is hereby certified

a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or

b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

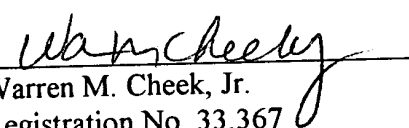
3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.

4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
- a. ☐ a full or partial English language translation submitted herewith,
 - b. ☐ a foreign patent office search report (in the English language) submitted herewith,
 - c. ☐ the concise explanation contained in the specification of the present application at page,
 - d. ☐ the concise explanation set forth in the attached English language abstract,
 - e. ☐ the concise explanation set forth below or on a separate sheet attached to the reference:
5. ☒ A foreign patent office search report citing one or more of the references is enclosed along with an English translation of the International Preliminary Examination Report.

Respectfully submitted,

Masaharu ARITOMI et al.

By


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August 31, 2001

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
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Date Submitted to PTO: August 31, 2001

ATTY DOCKET NO.
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August 31, 2001

GROUP

U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|----------------------|----|--------------------|------|------|-------|----------|-------------------------------|
| | AA | | | | | | |
| | AB | | | | | | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION YES NO |
|--|----|--------------------|---------|---------|-------|----------|-----------------------|
| | AC | 2-104597 | 4/1990 | JP | | | |
| | AD | 344796 | 12/1989 | EP | | | |
| | AE | 8-140678 | 6/1996 | JP | | | |
| | AF | 94/17185 | 8/1994 | WO | | | |
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| | AH | 7-133233 | 5/1995 | JP | | | |
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| | AK | | | | | | |
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OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

| | |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AM | Carlos Frazao et al., "Cystallization and preliminary x-ray diffraction analysis of tetra-heme cytochrome c3 from sulfate and nitrate-reducing desulfovibrio desulfuricans ATCC 27774", Acta Cryst. Vol. D50, No. 2, pp. 233-236, 1994. |
| AN | Hanna-Kiristi Schroder et al., "Structure of a non-psychrophilic trypsin from a cold-adapted fish species", Acta Cryst., Vol. D54, No. 5, pp. 780-798, 1998. |
| AO | Brett Lovejoy et al., "Crystal structure of canine and bovine granulocyte-colony stimulating factor (G-CSF)", J. Mol. Biol., Vol. 234, No. 3, pp. 640-653, 1993. |
| AP | Thomas P. Horan et al., "Coexpression of G-CSF with an unglycosylated G-CSF receptor mutant results in secretion of a stable complex", Protein Expression and Purification, Vol. 14, No. 1, pp. 45-53, 1998. |

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Rec'd PCT/PTO 31 AUG 2001

Sheet 2 of 2

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| | BA | | | | | | |
| | BB | | | | | | |
| | BC | | | | | | |
| | BD | | | | | | |
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| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION YES NO |
|--|----|--------------------|------|---------|-------|----------|-----------------------|
| | BF | | | | | | |
| | BG | | | | | | |
| | BH | | | | | | |
| | BI | | | | | | |
| | BJ | | | | | | |

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

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| BK | Christopher P. et al., "The structure of granulocyte-colony-stimulating factor and its relationship to other growth factors", Proc. Natl. Acad. Sci., Vol. 90, pp. 5167-5171, 1993. |
| BL | Masaharu Aritomi et al., "Atomic structure of the GCSF-receptor complex showing a new cytokine-receptor recognition scheme", Nature, Vol. 401, No. 6754, pp. 713-717, October 1999. |
| BM | Charles A. McWherter et al., "Circular permutation of the granulocyte colony-stimulating factor receptor agonist domain of myelopietin", Biochemistry, Vol. 38, No. 14, pp. 4564-4571, April 1999. |
| BN | S. Gourinath et al., "Structure of the bifunctional inhibitor of trypsin and α -amylase from ragi seeds at 2.9 Å resolution", Acta Cryst., Vol. D55, No. 1, pp. 25-30, 1999. |
| BO | |

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